

Port of Long Beach Actions to Reduce Greenhouse Gas Impacts



The Port of
LONG BEACH

World Ports
Climate Initiative Symposium
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Port of Long Beach Green Port Policy



- Adopted in 2005
- Protect the community from harmful environmental impacts of Port operations
 - Wildlife
 - Air
 - Water
 - Soils/Sediments
- Promote sustainability
- Engage and educate the community



San Pedro Bay Ports Clean Air Action Plan (CAAP)



- Five-year plan
- Prepared in cooperation with federal, state and local air quality regulatory agencies
- GHGs not initial focus of CAAP
- Some CAAP measures will reduce GHGs



San Pedro Bay Ports CAAP Measures



- California Global Warming Act of 2006 (AB32)
 - Reduce GHG emissions to 1990 levels by 2020
 - Climate Change Scoping Plan proposes GHG reducing measures
- Proposed measures for Goods Movement Sector to reduce GHG emissions are consistent with CAAP measures
 - Vessel Speed Reduction (CAAP Measure OGV1)
 - Ship Electrification at Ports (CAAP Measure OGV2)
 - Port Clean Trucks Program (CAAP Measure HDV1)

POLB Framework for Reduction of Greenhouse Gas Emissions



- Adopted September 2008
- Work with City of Long Beach, tenants, shipping lines, and agencies
- Establish goals and targets for GHG emissions reductions
- Evaluate opportunities to reduce GHG emissions from existing operations
- Implement diverse, cost-effective reduction measures
- Encourage development of emerging technologies
- Provide GHG reduction incentives for port community

Greenhouse Gas Emissions Inventories



- California Climate Action Registry and The Climate Registry
 - City of Long Beach joined in 2008
 - Port of Long Beach participating as Harbor Department of City of Long Beach
 - Focus on Harbor Department Operations
 - Emissions from port tenant operations or port-related operations not included
 - 2007 GHG emissions inventory - City's first, voluntary



Greenhouse Gas Emissions Inventories

- Port of Long Beach Air Emissions Inventory
 - Starting with 2006 inventory
 - GHG emissions from port-related mobile sources
 - Ocean-going vessels
 - Heavy-duty trucks
 - Cargo-handling equipment
 - Harbor craft
 - Locomotives



Additional Port of Long Beach Efforts Underway



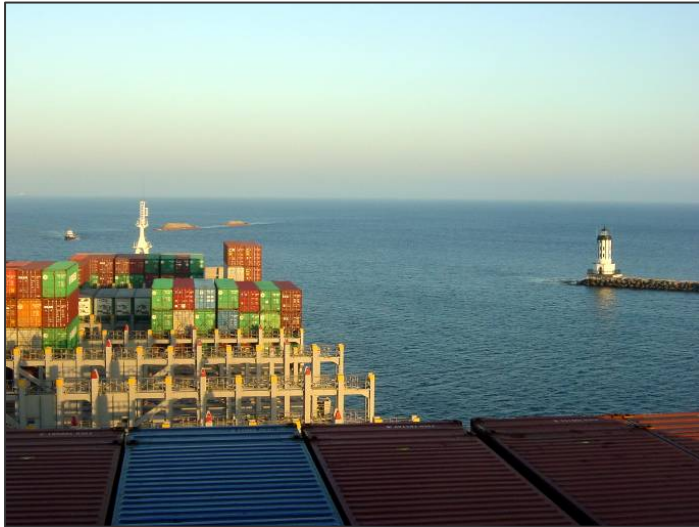
- Tree Planting and Urban Forest Renewal
 - Participating in development of City of Long Beach's Urban Forest Master Plan
- Carbon Re-injection
 - In discussion with Long Beach Gas and Oil Department and Tidelands Oil Production Company
- Renewable Energy
 - Renewable Energy Working Group established
 - Evaluate potential renewable energy projects
- Solar Carport Pilot Project

Additional Port of Long Beach Efforts Underway



- Demonstration and Implementation of New Technologies in Port Operations
 - Electric RTG cranes
 - Hybrid Yard Hostlers
 - Energy Storage Systems
 - Hybrid Tugboat
 - Reconfigured engine design for tugboats
- “Green Flag” Vessel Speed Reduction Program
- Shore Power for Ocean Going Vessels

Port of Long Beach Looking Ahead



- Annual Air Emissions Inventories of GHG Emissions
- Greenhouse Gas Emission Reduction Plan
 - Identify/Develop strategies to avoid, minimize or mitigate GHG emissions
- Research and evaluate emerging technologies to reduce GHG emissions
- Continue to work in cooperation with air agencies, City of Long Beach, and tenants on strategies to reduce port-related GHG emissions

Thank you!



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